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FIG. 1

Seq ID No. 1

RAVQGPEET

VTQDCLQLIAD**SETPTIQ**KGSYTFV**PWLLS**

FKRGSALEEKENKIL**VKET**GYFFIYGQVLY

TDKTYAMGH**LIQ**RKKVHVFGDELSLVTLFR

•

CIQNMPETLPNNSCYSAGIAKLEEGDGLQL

AIPRE**NAQISLDG**DVTFFGALKLL

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FIG. 2

Seq ID No. 2

MDDSTEREQSRLTSCLKKREE

MKLKECVSILPRKESPSVRSSKDGLLAAT

LLLALLSCCLTVVSFYQVAALQGD LASLRA

ELQGHHA EKLPAGAGAPKAGLEEAPAVTAG

•

LKIFEPPAPGEGNSSQNSRNKRAVQGPEET

VTQDCLQLIAD**SETPTIQ**KGSYTFV**PWLLS****FKRGS**ALEEKENKIL**VKET**GYFFIYGQVLY

TDKTYAMGH LIQRKKVHVFGDELSLVTLFR

•

CIQNMPETLPNNSCYSAGIAKLEEGDGLQL

AIPRE**NAQISLDGD**VTFFGALKLL

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FIG. 3

Seq ID No. 3

```
                                cgtgccgttcagggtccagaagaa
                                R A V Q G P E E
acagtcactcaagactgcttgcaactgattgcagacagtgaacaccaactatacaaaaa
T V T Q D C L Q L I A D S E T P T I Q K
ggatccttacacatttggccatggcttctcagctttaaaagggggaagtgccctagaagaa
G S Y T F V P W L L S F K R G S A L E E
aaagagaataaaaatattgtcaaagaaactggttacttttttatatatggtcagggttta
K E N K I L V K E T G Y F F I Y G Q V L
tatactgataagacctacgccatgggacatctaattcagaggaagaagggtccatgtcttt
Y T D K T Y A M G H L I Q R K K V H V F
ggggatgaattgagtcctggtgactttgtttcgaatgtattcaaaaatatgcctgaaacacta
G D E L S L V T L F R C I Q N M P E T L
cccaataattcctgctatttcagctggcattgcaaaaactggaagaaggagatggactccaa
P N N S C Y S A G I A K L E E G D G L Q
cttgcaataccaagagaaaatgcacaaatatcactggatggagatgtcacatttttttgggt
L A I P R E N A Q I S L D G D V T F F G
gcattgaaactgctgtga
A L K L L -
```

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FIG. 4

Seq ID No. 4

atggatgactccacagaaagggagcagtcacgccttacttcttgccttaagaaaagagaa
M D D S T E R E Q S R L T S C L K K R E
gaaatgaaactgaaggagtgtgtttccatcctccacggaaggaaagcccctctgtccga
E M K L K E C V S I L P R K E S P S V R
tcctccaaagacggaaagctgctggctgcaaccttgctgctggcactgctgtcttgctgc
S S K D G K L L A A T L L L A L L S C C
ctcacggtggtgtctttctaccaggtggccgcccctgcaaggggacctggccagcctccgg
L T V V S F Y Q V A A L Q G D L A S L R
gcagagctgcagggccaccacgcggagaagctgccagcaggagcaggagcccccaaggcc
A E L Q G H H A E K L P A G A G A P K A
ggcctggaggaagctccagctgtcaccgcgggactgaaaatctttgaaccaccagctcca
G L E A P A V T A G L K I F E P P A P
ggagaaggcaactccagtcagaacagcagaaataagcgtgccgttcagggtccagaagaa
G E G N S S Q N S R N K R A V Q G P E E
acagtcactcaagactgcttgcaactgattgcagacagtgaaacaccaactatacaaaaa
T V T Q D C L Q L I A D S E T P T I Q K
ggatctttacacatttggttccatggcttctcagctttttaaaggggaagtgccctagaagaa
G S Y T F V P W L L S F K R G S A L E E
aaagagaataaaaatattgttcaaagaaactgggttacttttttatatatgttcagggtttta
K E N K I L V K E T G Y F F I Y G Q V L
tatactgataagacctacgccatgggacatctaattcagaggaagaagggtccatgtcttt
Y T D K T Y A M G H L I Q R K K V H V F
gggatgaattgagtcctggtgactttgtttcgatgtattcaaaaatatgcctgaaacacta
G D E L S L V T L F R C I Q N M P E T L
cccaataattcctgctattcagctggcattgcaaaaactggaagaaggagatggactccaa
P N N S C Y S A G I A K L E E G D G L Q
cttgcaataaccaagagaaatgcacaaatatcactggatggagatgtcacattttttggt
L A I P R E N A Q I S L D G D V T F F G
gcattgaaactgctgtga
A L K L L -

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FIG. 5

Seq ID No. 5

IIQDCLQLI

ADSDTPTIRKGYTFVPWLLSFKRGNALEEKENKIVVR

QTGYFFIYSQVLYTDPIFAMGHVIRQKKVHVFGDELSL

•

VTLFRCIQNMPKTLPNNSCYSAGIARLEEGDEIQLAIP

RENAQISRNGDDTFFGALKLL

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FIG. 6

Seq ID No. 6

MDESAKTLPPPCLCFCSEKGED

MKVGYDPITPQKEEGAWFGICRDGRLLAATLLLALLSS

SFTAMSLYQLAALQADLMNLRMELQSYRGSATPAAAGA

PELTAGVKLLTPAAPRPHNSSRGHRNRRAFQGPEETEQ

DVDLSAPPAPCLPGCRHSQHDDNGMNLRNIIQDCLQLI

ADSDTPTIRKGTYTTFVPWLLSFKRGNALEEKENKIVVR

QTGYFFIYSQVLYTDPIFAMGHVIQRKKVHVFGDELSL

•

VTLFRCIQNMPKTLPNNSCYSAGIARLEEGDEIQLAIP

RENAQISRNGDDTFFGALKLL

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FIG. 7

Seq ID No. 7

```
atcattcaagactgtctgcagctgattgcagacagcgacacgccg
  I I Q D C L Q L I A D S D T P
actatacgaaaaggaacttacacatttggtccatggcttctcagctttaaagaggaaat
  T I R K G T Y T F V P W L L S F K R G N
gccttggaggagaaagagaacaaaatagtggtgaggcaaacaggctatttcttcatctac
  A L E E K E N K I V V R Q T G Y F F I Y
agccagggttctatacacggaccccatctttgctatgggtcatgtcatccagaggaagaaa
  S Q V L Y T D P I F A M G H V I Q R K K
gtacacgtctttggggacgagctgagcctgggtgaccctgttcgatgtattcagaatatg
  V H V F G D E L S L V T L F R C I Q N M
cccaaaacactgccaacaattcctgctactcggctggcatcgcgaggctggaagaagga
  P K T L P N N S C Y S A G I A R L E E G
gatgagattcagcttgcaattcctcgggagaatgcacagatttcacgcaacggagacgac
  D E I Q L A I P R E N A Q I S R N G D D
accttcttttggtgccctaaaactgctgtaa
  T F F G A L K L L -
```

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FIG. 8

Seq ID No. 8

atggatgagtcctgcaaagaccctgccaccacgtgcctctgtttttgctccgagaaagga
M D E S A K T L P P P C L C F C S E K G
gaagatatgaaagtgggatatgatcccatcactccgcagaaggaggagggtgcctggttt
E D M K V G Y D P I T P Q K E E G A W F
gggatctgcagggatggaaggctgctggctgctaccctcctgctggccctgttgtccagc
G I C R D G R L L A A T L L L A L L S S
agtttcacagcgatgtccttgtaccagttggctgccttgcaagcagacctgatgaacctg
S F T A M S L Y Q L A A L Q A D L M N L
cgcatggagctgcagagctaccgaggttcagcaacaccagccgccgggtgctccagag
R M E L Q S Y R G S A T P A A A G A P E
ttgaccgctggagtc aaactcctgacgccggcagctcctcgacccccacaactccagccg
L T A G V K L L T P A A P R P H N S S R
ggccacaggaacagacgcgctttccagggaccagaggaaacagaacaagatgtagacctc
G H R N R R A F Q G P E E T E Q D V D L
tcagctcctcctgacccatgcctgcctggatgccgccattctcaacatgatgataatgga
S A P P A P C L P G C R H S Q H D D N G
atgaacctcagaaacatcattcaagactgtctgcagctgattgcagacagcgacacgccg
M N L R N I I Q D C L Q L I A D S D T P
actatacgaaaaggaacttacacatttgttccatggcttctcagctttaaagaggaaat
T I R K G T Y T F V P W L L S F K R G N
gccttggaggagaaagagaacaaaaatagtggtgaggcaaacaggctatttcttcatctac
A L E E K E N K I V V R Q T G Y F F I Y
agccaggttctatacacggacccccatctttgctatgggtcatgtcatccagaggaagaaa
S Q V L Y T D P I F A M G H V I Q R K K
gtacacgtcttttggggacgagctgagcctgggtgaccctgttccgatgtattcagaatatg
V H V F G D E L S L V T L F R C I Q N M
ccaaaaacactgccc a a a a t t c c t g c t a c t c g g c t g g c a t c g c g a g g c t g g a a g a g g a
P K T L P N N S C Y S A G I A R L E E G
gatgagattcagcttgcaattcctcgggagaatgcacagatttcacgcaacggagacgac
D E I Q L A I P R E N A Q I S R N G D D
accttcttttgggtgccttaaaactgctgtaa
T F F G A L K L L -

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```

MOUSE 1 MDESAKTLPPCLCFCSEKGEDMKVGYDPITPQKEEGAWFGICRDGRLLA 50
      ||:| . | | .| |:|. .:| :||:|
HUMAN 1 MDDSTER.EQSRLTSCCLKREEMKLKECVSILPRKESPSVRSSSKDGKLLA 49
      .
51 ATLLALLSSSFTAMSLYQLAALQADLMNLRMELQSYRGSATPAAAGAPE 100
   ||||| | | .| ||. ||| | | .| | | : | | |||.
50 ATLLALLSCCLTVVSFYQVAALQGDLASLRAELQGHHAELKPAGAGAPK 99
      .
101 .....LTAGVKLLTPAAPRPHNSSRGHRNRRAFQGPEETE QDVDLSA 142
     .|||. |: | | | | | | | | | | | |
100 AGLEEAPAVTAGLKIFEPAPGEGNSSQNSRNKRAVQGPEET..... 141
      .
143 PPAPCLPGCRHSQHDDNGMNLRNIIQDCLQLIADSDTPTIRKGTYTFVPW 192
      : ||||| | | | | | | | | | | | |
142 .....VTQDCLQLIADSETPTIQKGSYTFVPW 168
      .
193 LLSFKRGNALEEKENKIVVRQTGYFFIYSQVLYTDPIFAMGHVIRKKVH 242
   |||||. ||||| | | | | | | | | | | | | | | | | | | |
169 LLSFKRGSAALEEKENKILVKETGYFFIYGQVLYTDKTYAMGHLIQKKVH 218
      .
243 VFGDELSLVTLFRCIQNMPKTLPNNSCYSAGIARLEEGDEIQLAIPRENA 292
   ||||| | | | | | | | | | | | | | | | | | | | | | |
219 VFGDELSLVTLFRCIQNMPETLPNNSCYSAGIAKLEEGDGLQLAIPRENA 268
      .
293 QISRNGDDTFFGALKLL* 310
   ||| . || | | | | | | | |
269 QISLDGDVTFFGALKLL* 286

```

FIG. 9

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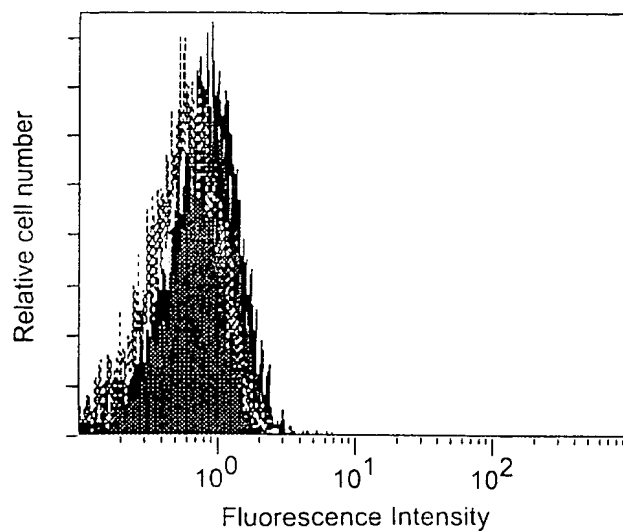


FIG. 10A

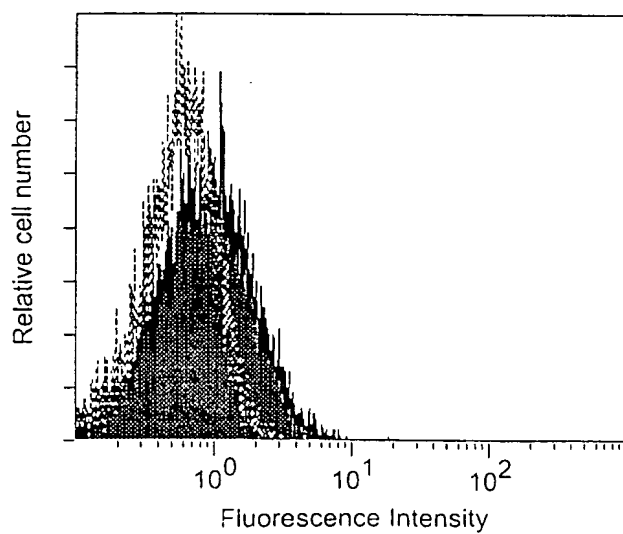


FIG. 10B

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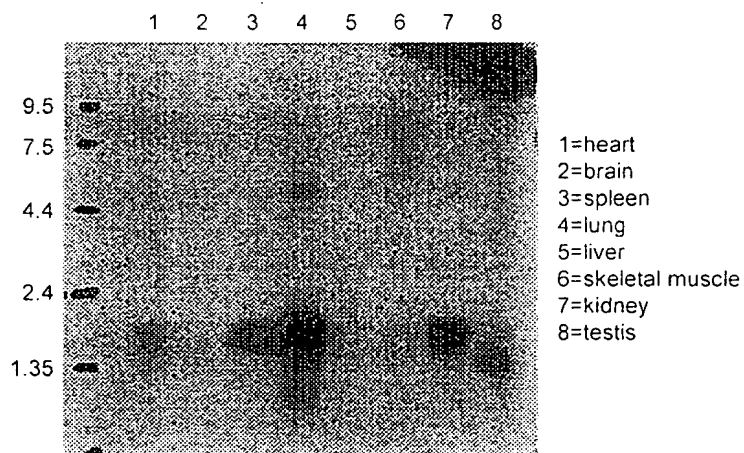


FIG. 11A

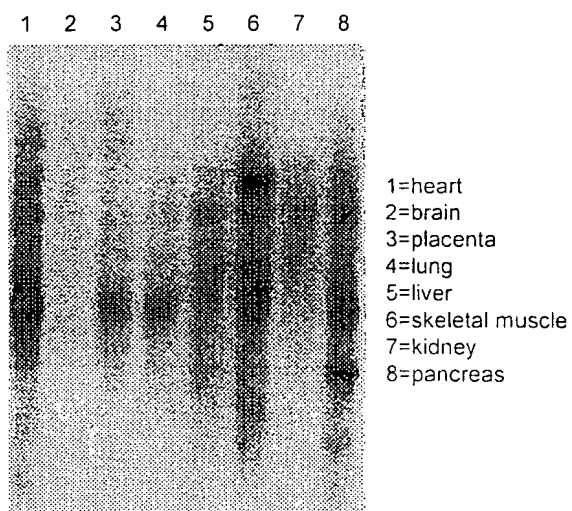


FIG. 11B

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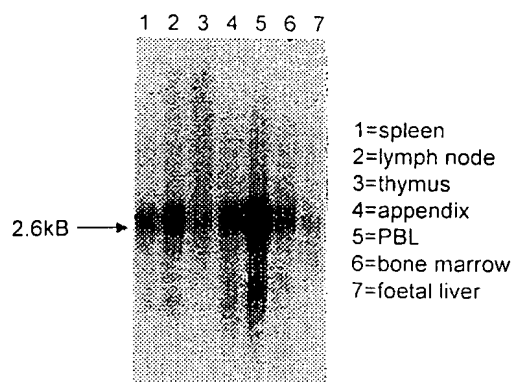


FIG. 12A

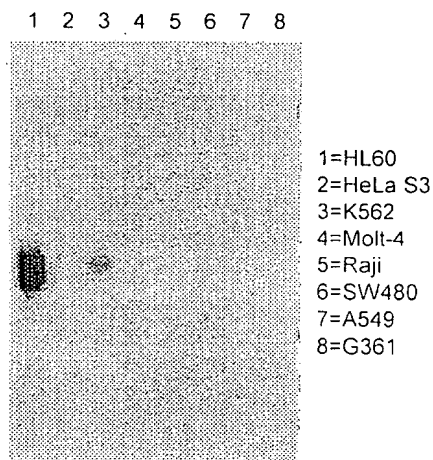


FIG. 12B

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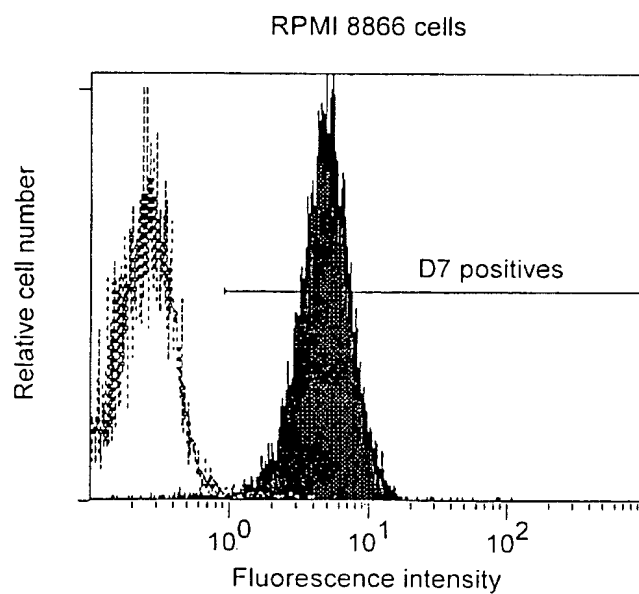


FIG. 13

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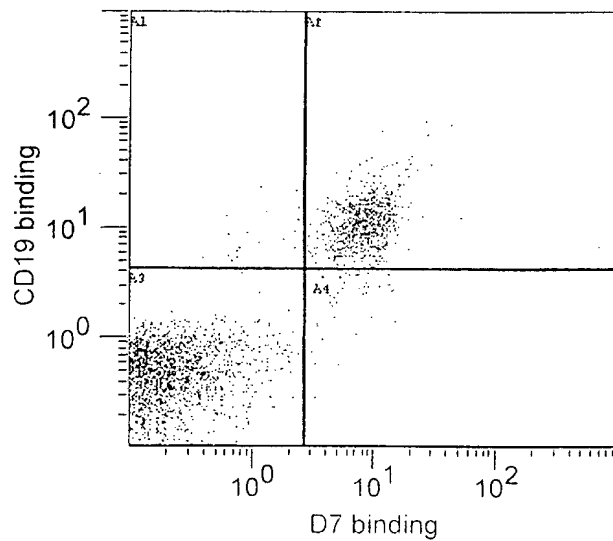


FIG. 14A

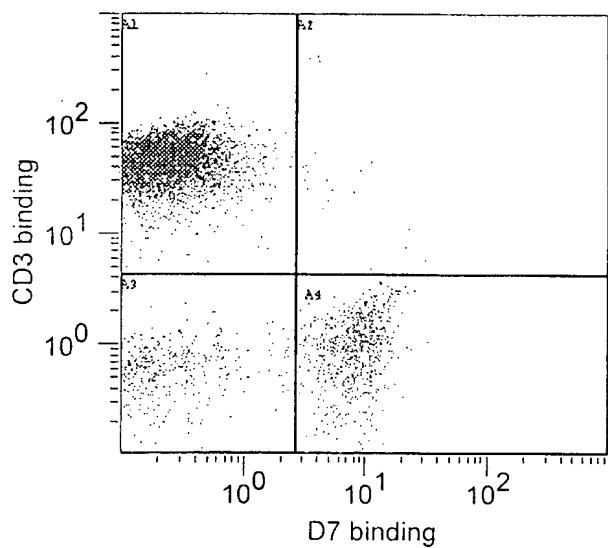


FIG. 14B

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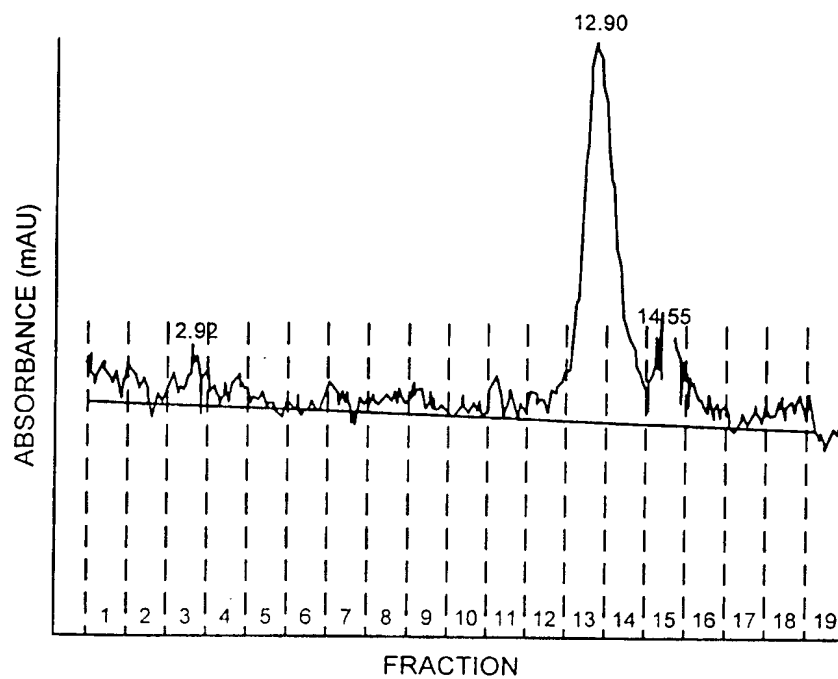


FIG. 15A

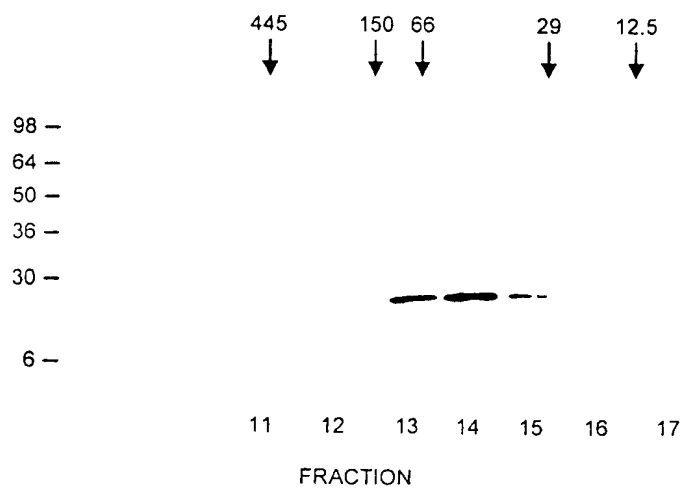


FIG. 15B